

Guardian[™] PVC & CPVC Double Containment Systems



Available in tough industrial grade PVC

Tougher high temperature CPVC

Patented Centra-Lock design reduces the required joints by 40 - 60%



Guardian™

Guardian[™] is a completely new Dual Contained pipework system made from Xirtec140 (uPVC ASTM Schedule 80) or Corzan (CPVC ASTM Schedule 80) material.

Guardian is a unique system that incorporates a patented Centra-Lok[™] system, which provides a solid fixed fittings, offering a true point of difference from other dual contained systems in the market.

Manufactured in PVC-U material, Guardian[™] is ideal for water and waste water treatment applications as it allows the sae transportation of different fluids and some chemical concentrates without fear of safety hazards and environmental pollution.

Key Product Information

- Size Range 1/2" x 2" up to 6" x 12"
- Pressure Rating: Acc. ASTM Schedule 80
- Temerature Rating: +5 to 60°C

Key Product Features

- Patented Centra-Lok[™] system holds fitting in the correct place prior to installation
- Extremely easy to install Solvent Weld Jointing on both inner and outer
- Visual or automated leak detection system available
- Complete selection of pretested modular components, both off the shelf and custom made

Typical Appliations

- Water and waste water treatment
- Chemical process
- Pharmaceutical
- Industrial / Mining processes
- Food and Beverage
- Untreated / Contaminated water transport
- Personnel / Property / Equipment protection







Guardian Introduction

Dual contained pipework for when leaks are not an option...

Guardian – Your dual contained specialist

Creating a safe working environment, offering strong environmental control is imperative in many industrial applications, particularly within the water treatment, chemical processing and process application sectors. Pressures are increasing for businesses to provide extra reliability not only to their workforce, but also to the environment they are operating within, driving demand for extra reliability provided with a dual contained pipework system.

Guardian dual contained pipework system utilises state-of-the-art technology, using pre-assembled components that guarantee reliability, ease of installation and fewer joints than many other competitor systems on the market, providing a perfect solution to applications **when leaks are NOT an option!**

What is Guardian?

Overview

- Dual contained pipework system
- Full range of pipe, fittings,
- valves and terminations
- Easy to install
- Fully imperial sized system

Material Selection

Guardian is manufactured from PVC-U material which makes the system ideal for conveying industrial fluids in demanding environments.

Design

The Guardian system offers a complete selection of pretested modular components which are extremely easy to install.

Our Centra-Lok[™] patented design means the Guardian system averages up to 60% fewer overall joints than other systems on the market. Since joints are always the most common source of premature failures and leaks, it is easy to realise the immense impact the patented Centra-Lok[™] design has on maintenance, repair and installation costs.

Leak Detection

As part of the Guardian range, we can also offer a range of leak detection systems, both physical and optical. See Page **12** for more information.

Easy to install

Guardian is the easiest system of its kind (dual contained) to install. Following the same simple solvent cement jointing process as singlewall PVC-U, there are no special tools, equipment or hot works permits required. Please see page 4 for full jointing instructions.



Property / Equipment
 High Value Contents

Where is Guardian used?

- Water and Waste Treatment
- Chemical Waste
- Process Applications
- Untreated Water





Chemical Manufacturing/

Electronics/Data Storage

Pharmaceutical

Mining Processes





What is it commonly used for?

• Protection of:

o People

Environment



• Aggressive Chemicals

Unknown/Hazardous Waste

2



Leak Prevention



Booster Pump Station, Audenshaw

The station delivers drinking water into North West water company United Utilities' Manchester ring main from the Thirlmere Aqueduct. Following a review, it became apparent that the phosphate dosing operation at the site was in need of attention, in particular, the existing pipework carrying the aqueous solution of sodium orthophosphate from the glass reinforced plastic storage tanks to the dosing rig.

Byzak Limited installed the Guardian pipework system to transfer the sodium orthophosphate from the storage tanks to the dosing rig, using 1" carrier pipe in 3" containment pipe.

Contamination Prevention



Water Treatment Works, Rivington

Durapipe Guardian installed at Rivington Water Treatment Works, specified to transport sodium hypochlorite safely from the bulk storage tanks to each of the seven new pumps installed within the plant.

The pipework is installed within the ceiling voids of the plant, therefore due to the nature of the chemicals planned for transportation, it was vital that the system is dual contained to prevent any potential leakages spilling out into the plant and endangering unprotected workers.

Guardian Case Study Examples

Factory Installation



Armstrong World Industries, Gateshead

Durapipe Guardian installed at Armstrong World Industries, a global manufacturer of ceiling and floor products and commissioned ProMinent.

The system was specified as a dual contained pipework system to carry 2000ppm Carbon Dioxide from manufacturing through to settle tanks ready for discharge.

Chemical Transportation



Water Treatment Works, Egham

Durapipe Guardian installed at Egham Water Treatment Works during a period of pipework regeneration.

Contractors IDS required a dual contained system in order to transport orthophosphoric acid and polyaluminium chloride around the plant safely.



Guardian Installation

Solvent Cement Jointing (Individual)

PVC

1. The pipe must be cut clean and square. A suitable wheel cutter will eliminate swarf. As an alternative (and on larger sizes) a carpenter's saw should be used, however this may create dust and swarf which can enter the system. Remove all burrs from both the inside and outside edge of the pipe with a knife, file or reamer and chamfer the end of the pipe using a coarse file or suitable chamfering tool. The chamfer should be approximately 45° by 3mm to 5mm depending on the pipe size. Remove any dirt, grease or moisture. A thorough wipe with a clean, dry rag is usually sufficient. Check dry fit. Pipe should insert easily into socket, approximately ¹/₄ to ³/₄ of the total socket depth.





2. Clean surfaces thoroughly using lint free cloth/paper towel.



3. IPS Weld-On Primer and Solvent Cement to be applied. Please see page 13 for details. Contact Vinidex if you need more information on the application of Primer/Solvent Cements.

The joint surfaces should be completely covered by cement. Cement should be applied using an appropriate size applicator and tin of cement. It is important to apply cement quickly to enable assembly without excessive force being required. When applying cement with a brush, the size of the brush should be approximately half the size of the pipe to be jointed - brush size up to $2^{1/2}$ " for 0.5 litre tins.





4. Without delay assemble while cement is still wet, push the pipe fully home into the fitting using sufficient force to ensure that pipe bottoms in socket. Twist a ¼ turn as the pipe is being inserted, if possible. Hold together for about thirty seconds to make sure joint does not separate. With a rag, wipe off excess cement. Avoid disturbing the joint.





5. Repeat step 3, but this time for the containment pipe and outer fittings.



6. Without delay assemble the outer joint as described in step 4. This process (points 3-6), can be repeated using standard PVC sockets to extend the pipe lengths, until there is a change of direction needed.





Solvent Cement Jointing (Simultaneous)

There will be circumstances where it will not be possible to joint the carrier pipework and the containment pipework separately. At this point a simultaneous joint will be required.

7a. Determine proper carrier pipe lengths to achieve desired centre-to-centre dimension. Cut to size and prep ends as detailed in steps 1 & 2.



7b. Generally containment pipe needs to be shorter than the carrier pipe. This distance can be worked out from the data on pages 10-11. A2 - A1 = Additional length of carrier pipe eg. for 1/2" # 2" (90° Elbow) this equates to 35.1 - 12.7 = 22.4mm

Hence the carrier pipe needs to be 22.4mm longer than the containment pipe, for simultaneous jointing. Measure and cut both the carrier and containment pipes to the required distance and chamfer and clean the pipe and fittings as described in steps 1 & 2.



- Install Centra-guide support at pipe's end. Distance between the fi tting and support should not exceed 1¹/2 metres. Install additional supports if required.
- 9. Clean surfaces thoroughly with clean rag and apply primer and solvent cement to carrier and containment sockets and pipe ends. Push the fitting fully home so that it is against the pipe stop.



- 10. Wipe off excess cement from the outside of the joint.
- Do not disturb the joint for at least 15 minutes. On larger sizes do not subject the joint to bending or twisting forces for at least 4 hours. When making subsequent joints, which can be done without waiting, take care not to transmit forces to freshly made joints in the system.
 Refer to the solvent cement manufacturer for recommended cure times.

IMPORTANT: Always apply primer and solvent cement liberally. Do not take shortcuts. Follow Guardian instructions explicitly.



Cleaning and Installation

Following installation, the installer shall check the operation of all valves, leak detection, devices and ancillary items. The annular space should be purged of moisture containing air, by replacing the volume of air with clean, dry nitrogen.

Common Mistakes

- · Insufficient amount of cement
- · Incorrect or outdated cement
- Primer not being used
- Pipe ends not chamfered
- · Pipes not fully inserted (Inner pipe too short)
- · Pipes misaligned
- Contamination (dirt) on cementing area
- Improper positioning of closure coupling on containment pipe
- Movement of pipe sections before cement is fully cured
- Wrong size brush
- 1. Always use containment pipe dimensions as the basis for determining piping layout, centre-to-centre dimensions and expansion loop size.
- 2. Termination fittings are usually required at the beginning, end and at any branch line of double containment systems, except when draining back to a collection sump, pit or tank.
- Systems with long runs or extreme temperature changes may require expansion loops or elbows, TEDs or changes in direction.
- 4. Vinidex technical support team should be consulted for correct determination of suitability of chemicals.
- 5. For above-ground and outdoor applications, UV protection may be required on certain materials.

Care should be taken to avoid exposure to UV light, eg. sunlight, particularly during storage.

This will cause discolouration and deterioration of the PVC-U material.

Whilst this is a surface effect only, it is recommended that precautions be taken to prevent this happening.

If stored outdoors pipe should be covered with opaque sheeting.

If installed outdoors it can be protected from the effects of UV by insulating or painting.

NOTE: Always allow 24 hours or more, depending on environmental conditions, before testing carrier/containment pipe. Please allow 48 hours for sizes above 8".



External Support

Support and spacing requirements for double containment pipe systems should be equal to standard above-ground PVC-U piping. It is important to place hangers near interstitial supports. Additional external support considerations should be given to components such as valves, in-line pumps or other heavy items.

Horizontal piping systems should be supported on uniform centers, which are determined by maximum containment pipe temperatures (see support chart for recommendations). Values apply to uninsulated lines either in a building or exposed to the environment.

Regardless of the type of hanger selected, it is important to note that a wide surface is recommended, free from burrs and sharp edges. Do not anchor by means of a U-bolt directly to the containment pipe.

When pipe clips are used, they should not force the pipe fittings into position. Each pipe section should be laid out and jointed to its mating section. Once the joints have been completed, the final support is in place. When correctly installed, a clip or anchor can be loosened or removed without the pipe shifting.

Pipe Size Inner#Outer (Inch)	Minimum Support Spacing at 20°C (m)		
¹ /2#2	1.80		
³ /4#3	2.25		
1#3	2.15		
11/4#4	2.40		
2#4	2.20		
3#6	2.75		
4#8	3.10		
6#10	3.30		
8#12	3.50		



Pressure Testing Guardian PVC-U Dual Contained Pipework

Test Method: Carrier (inner) Pipework

After the joints have been allowed to cure for the appropriate minimum drying time (at least 24 hours @ 20°C).

- The system should be divided into sections (if appropriate) for testing. Fill with cold water ensuring no air pockets remain.
 Do not pressurise at this stage.
- Check the pipework for any obvious leaks, if none are apparent, check for and remove any remaining air.
- Increase the pressure up to 3 bar. **Do not** pressurise further at this stage.
- Leave pressurised for 10 minutes, if pressure decays, inspect for leaks and rectify as necessary. If pressure remains constant, slowly increase the hydrostatic pressure to 1¹/₂ times the nominal operating pressure (max 22.5 bar).
- Leave pressurised for a period not exceeding 1 hour. During this time the pressure should not change.
- If extended times are required to achieve hydrostatic pressure, either leakage has occurred or air remains in the line, Inspect for leaks and if none are apparent, reduce the pressure and check for trapped air. This must be removed prior to further pressurisation.

NOTE: If leaks are found at any stage, the system must be depressurised and drained. It is not possible to make a repair to leaking pipe or fittings, therefore such components must be cut out and replaced. All new joints must be fully cured prior to re-testing.

THE USE OF GAS OR COMPRESSED AIR IS NOT PERMITTED AS A TEST MEDIUM FOR CARRIER PIPE.

Test Method: Containment (outer) Pipework

A low-pressure air test is the recommended method for testing the containment pipe. However, a hydrostatic water test is possible for the containment zone.

Low-pressure air test

After the joints have been allowed to cure for the appropriate minimum drying time (at least 24 hours up to 8", sizes 10" & 12" require a minimum of 48 hours @ 20°C).

- The containment pipe can be low-pressure air tested at up to 0.5 bar regulated pressure.
- If the pipework contains 'zone fittings' each zone of the pipework will need to be tested individually.
- The system must not be directly connected to a compressed air-line, nitrogen bottle or any unregulated pressure device. It is imperative that a working pressure regulator be used during the pneumatic test to ensure over pressurisation does not occur.
- The test equipment must have a pressure limiting device, set to 0.5 bar, at the source and an air relief device, set to 0.5 bar, at the end of the system.
- Use a spray bottle containing soap and water solution to examine for leaks in the containment pipework.
- If any leaks are discovered, the system must be depressurised before components are cut out and replaced.

NOTE: Some compressor oils can contain damaging elements to PVC-U pipe, check with the manufacturer of the compressor oil for its suitability with PVC-U pipe.

Alternative hydrostatic pressure test for containment pipe

After the joints have been allowed to cure for the appropriate minimum drying time (at least 24 hours up to 8", sizes 10" & 12" require a minimum of 48 hours @ 20°C).

- The carrier pipe must be filled with water.
- The containment pipe should be divided into sections **see notes below** (if appropriate) for testing.
- Fill with cold water ensuring no air pockets remain. **Do not** pressurise at this stage.
- Check the pipework for any obvious leaks, if none are apparent, check for and remove any remaining air.

The carrier pipe must be pressurised to equal or greater than the maximum test pressure of the containment pipe.

- Increase the pressure up to 3 bar. **Do not** pressurise further at this stage.
- Leave pressurised for 10 minutes, if pressure decays, inspect for leaks and rectify as necessary. If pressure remains constant, slowly increase the hydrostatic pressure to $1\frac{1}{2}$ times the nominal operating pressure (Maximum 13.5 bar).
- Leave pressurised for a period not exceeding 1 hour. During this time the pressure should not change.
- If extended times are required to achieve hydrostatic pressure, either leakage has occurred or air remains in the line, Inspect for leaks and if none are apparent, reduce the pressure and check for trapped air. This must be removed prior to further pressurisation.

NOTES: If leaks are found at any stage, the system must be depressurised and drained. It is not possible to make a repair to leaking pipe or fittings, therefore such components must be cut out and replaced. All new joints must be fully cured prior to re-testing.



Expansion Loop and Elbows

A common method to control the effects of expansion or contraction in a piping system is to install a combination of anchors and guides with expansion loops. Anchors direct pipe to free movement area. Guides control the carrier pipe movement down the bore of the containment pipe to, and away from, the expansion loop.

A relaxed expansion loop as well as one subjected to temperature change are depicted below. As you can see, when a pipe is subjected to temperature change, some degree of movement will occur. Failure to compensate for temperature change may cause stress and ultimately failure.

The carrier and containment pipes are anchored together at every change of direction due to the way in which the unique Centra-Lok[™] component connects the fittings together.

For this reason it is important to install standard tees (outer) and 90° elbows (inner) in order to allow for the carrier pipe to move independently. The open socket can then be plugged once the system has been pressure tested. Contact Vinidex for details on calculating expansion loop size.



Standard 90° Elbow inside standard PVC tee to allow pipe to move.







Expansion Joints

by **aliaxis**

Telescopic Expansion Device (TED)

We have introduced a new expansion joint that provides an easy to install solution for the complex expansion and contraction of a double contained piping system. This piston style expansion joint features:

- 150mm of travel for both carrier and containment pipe
- Triple O-ring design for a reliable water tight seal
- · Independent movement for both carrier and containment pipe
- · Tap and plug on containment for drainage
- · Piston guides to ensure smooth motion without buckling
- Pressure rated design up to 16 bar

Durapipe Guardian Double Containment Expansion Joints are engineered to accommodate the various expansion and contraction found in a contained piping system. The carrier and containment pipe are allowed to expand and contract independently of each other to ensure proper compensation regardless of ambient or process temperature differentials, pipe size, or layout differences. The expansion joint is shipped fully assembled, using factory tested joints, to eliminate the need for costly field joints that could create leak paths.

NOTE: Free space area denotes maximum movement of carrier to initial interference with containment.

Unwanted stresses resulting from thermal expansion can be minimised or eliminated by providing for flexibility in a double containment piping system. This is achieved by incorporating expansion loops or elbows.

Maximum Expansion Per Loop Size					
Size (inch)	Free Space Area (mm)				
¹ /2#2	16.00				
³ /4#3	26.00				
1#3	23.00				
11/2#4	27.00				
2#4	13.00				
3#6	22.00				
4#8	34.00				
6#10	22.00				
8#12	14.00				



Carrier/ Containment	Α	В	С	D	E	Code
1" # 3"	106.68	134.62	889.41	259.08	383.54	92 874
2" # 4"	134.62	193.04	939.80	312.42	469.90	93 894
3" # 6"	198.12	218.44	1295.4	304.80	438.15	92 876
4" # 8"	254.00	273.05	1346.2	330.20	438.15	92 878

Notes:

Optional FPM seals available

1" # 3" and 2" # 4" not coming with 1/2" Tap & Plug



PVC80/PVC80

Guardian Dimensional Information

PVC Dual Contained pipe



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Carrier/ Containment	SCH	L ₁ m	L ₂ m	OD1 mm	t ₁ mm	OD2 mm	t2	VX Code
¹ /2"#2"	80	5.8	1.5	21.2	1.9	60.2	3.4	TBA
³ ⁄4"#3"	80	5.8	1.5	26.6	2.4	88.7	5.0	TBA
1"#3"	80	5.8	1.5	33.4	3.0	88.7	5.0	TBA
1 ¹ /2"#4"	80	5.8	1.5	48.1	4.4	114.1	6.4	TBA
2"#4"	80	5.8	1.5	60.2	5.4	114.1	6.4	TBA
3"#6"	80	5.8	1.5	88.7	8.1	168.0	9.4	TBA
4"#8"	80	5.8	1.5	114.1	10.3	218.8	12.2	TBA
6"#10"	80	TBA	TBA	TBA	TBA	TBA	TBA	TBA
8"#12"	80	TBA	TBA	TBA	TBA	TBA	TBA	TBA

Both Carrier and Containment pipes are ASTM Schedule80. Corzan CPVC variations available upon request.

This product is supplied as:

1 x 5.8m length of grey inner pipe

1 x 5.8m lengths of grey outer pipe

5 x Centra-guide spacers

PVC Dual Contained pipe clear outer



Centra-Lok[™] 90° Tees Equal plain

Carrier/ Containment	Sch. t	L ₁ m	L ₂ m	OD1 mm	t ₁ mm	OD2 mm	t ₂	Code
¹ /2"#2"	80/40	5.8	3.0	21.2	1.9	60.3	5.19	TBA
³ ⁄4"#3"	80/40	5.8	3.0	26.6	2.4	88.9	7.27	TBA
1"#3"	80/40	5.8	3.0	33.4	3.0	88.9	7.27	TBA
1 ¹ /2"#4"	80/40	5.8	3.0	48.1	4.4	114.3	10.15	TBA
2"#4"	80/40	5.8	3.0	60.2	5.4	114.3	10.15	TBA
3"#6"	80/40	5.8	3.0	88.7	8.1	168.3	15.32	TBA
4"#8"	80/40	5.8	3.0	114.1	10.3	218.8	20.17	TBA

This product is supplied as:

1 x 5.8m length of grey inner pipe

2 x 3m lengths of clear outer pipe 1 x socket (loose)

4 x Centra-guide spacers

PVC80/PVC80

PVC80/PVC40C









*Applies to 6#10" & 8#12"



Centra-Lok[™] 90° Elbows Plain





Carrier/ Containment	A1	A2	ID1	ID2	Code
¹ /2"#2"	12.7	35.1	21.3	60.5	98 356
³ ⁄4"#3"	17.3	49.8	26.7	88.9	98 363
1"#3"	19.1	49.8	33.5	88.9	98 364
1 ¹ /2"#4"	26.9	65.8	48.3	114.3	98 365
2"#4"	31.8	65.8	60.5	114.3	98 366
3"#6"	46.7	95.0	88.9	168.1	98 367
4"#8"	59.4	122.2	114.3	218.9	98 368
6"#10"	88.9	150.6	168.1	273.1	98 369
8"#12"	115.8	176.0	218.9	323.9	98 370

Centra-Lok[™] 45° Elbows Plain

PVC80/PVC80

PVC80/PVC80

PVC80/PVC80



Carrier/ Containment	A1	A2	ID1	ID2	Code
¹ /2"#2"	6.4	22.1	21.3	60.5	98 361
³ ⁄4"#3"	8.6	25.4	26.7	88.9	98 371
1"#3"	9.7	25.4	33.5	88.9	98 372
1 ¹ /2"#4"	12.7	31.8	48.3	114.3	98 373
2"#4"	15.7	31.8	60.5	114.3	98 374
3"#6"	19.1	50.8	88.9	168.1	98 375
4"#8"	25.4	57.2	114.3	218.9	98 376
6"#10"	44.5	120.7	168.1	273.1	98 377
8"#12"	50.8	173.0	218.9	323.9	98 378

Termination fitting Socket Style B

SOCKET STYLE B-TERM



Carrier/ Containment	L1	D1	ID1	0D1	Code
¹ /2"#2"	61.2	38.1	21.3	60.5	92 852
³ ⁄4"#3"	100.8	47.8	26.7	88.9	98 402
1"#3"	100.8	47.8	33.5	88.9	92 853
1 ¹ /2"#4"	119.1	57.2	48.3	114.3	98 404
2"#4"	119.1	57.2	60.2	114.3	92 854
3"#6"	158.8	76.2	88.9	168.4	98 406
4"#8"	215.9	101.6	114.3	219.2	98 407



PVC80/PVC80

PVC/PVC VKD valve Plain





Carrier/ Containment	L1	L2	A3	ID1	ID2	Code
¹ /2"#2"	192	104	186	21.3	60.5	98 387
³ ⁄4"#3"	196	106	213	26.7	88.9	98 388
1"#3"	260	135	242	33.5	88.9	98 389
1 ¹ /2"#4"	310	200	269	48.3	114.3	98 390
2"#4"	370	200	299	60.5	114.3	98 391
3"#6"	460	270	370	88.9	168.1	98 392
4"#8"	620	310	480	114.3	218.9	98 393
Option:						

Available with FPM seals. To order use 08 DKF ***

CAUTION: Do not use or test the products in this manual with compressed air or other gases.

NOTE: Other types of double contained valves are available upon request, please contact the Vinidex Team to discuss your requirements.

Guardian Leak Detection Kits

Standard leak detection kit Consisting of equal tee, bush, 1m clear PVC pipe and VXE Easyfit PVC ball valve

Description	Code
Leak detection tee kit to fit 2" OD containment pipe	93 887
Leak detection tee kit to fit 3" OD containment pipe	93 888
Leak detection tee kit to fit 4" OD containment pipe	93 889
Leak detection tee kit to fit 6" OD containment pipe	93 890
Leak detection tee kit to fit 8" OD containment pipe	93 891





Above ground Leak detection kits available with sensor, please contact Vinidex for more information.

Underground leak detection kit

1- Underground Leak Detection Station with Sensor and Pump Out Port 2- Visual Underground Leak Detection Station





Please contact Vinidex for more information / pricing on Under Ground Leak Detection Systems

Leak Detection System

Vinidex Guardian dual contained pipework accepts many forms of leak detection equipment. Our technical support team can advise on your leak detection options. For all leak detection queries, please contact our technical support on 13 11 69.



Centra-Guard™Leak Detection Panel

Used in to monitor leakage through sensors in leak detectors

Each panel available in multiples of 8 zones

- Standard RS 232 port
- Microprocessor based
- Failsafe Design has processor and HMI display for detection of fluid by sensor and continuity
 of wire
- Standard general alarm SPDT relay contacts allow communication with plant PLC
- Stores 100 date stamped events then writes over the oldest (on status changes)
- Optional Ethernet port
- Nema 4x FRP Enclosure
- Optional Enclosure Materials: Aluminum, 304 / 316 SS
- Specially designed panels available upon request

Please contact Vinidex team for any further information

Sockets Plain



Size	L	Z	Е	gms	Code
1/2"	17	2	27	13	92 138
3 _{/4}	20	2	33	15	92 139
1"	23	2	41	36	92 140
1 ¹ /2"	31	3	61	118	92 141
2"	38	3	76	206	92 142
3"	51	6	108	420	92 143
4"	63	5	131	680	92 144
6"	90	10	195	1800	92 145
8"	116	12	257	4950	92 814

Accessories

Primer - IPS P70 PVC/CPVC



Volume	Code
473 ml	90 908
946 ml	90 912

Saddle clips



Size (E	F	G	Bolt/Screw size	gms	Code
2 3	8 87	-	22	M.6/0BA/No 12	25	90 799
3 5) 122	8	34	M.10/3/8UNC	45	90 800
4 6	156	13	38	M.10/3/8UNC	70	90 801

Solvent cement - IPS724 CPVC / UPVC

	Volume	Code
724 CPVC	473 ml	90 910
O CAR	946 ml	90 915
the second second		

Cobra pipe clips





Size	Α	в	С	D	G	Bolt/Screw	gms	Code
2	102	60	60	19	21	M.6/0BA/No10	42	92 351
3	148	80	90	39	31	M.8	121	92 352
4	171	90	96	36	35	M.8	185	92 353
6	243	170	150	40	40	M.8	185	92 354

Α

PVC80

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Additional Available Systems

CustomGu@rd®

Custom-designed and fabricated double containment systems including dissimilar material systems, CustomGuard[®] is unlike other systems that try to run everything through the same material. Our specialists will recommend and provide the absolute best system for each individual application, looking not only at chemical compatibility but also at cost (material and installation), life expectancy and turn around time.

For applications with more demanding mechanical, chemical and/or thermal requirements, CustomGuard is available. CustomGuard includes a variety of different system choices ranging from Fluoropolymers (e.g. PVDF), Thermosets (FRP); and carbon and stainless steel to hybrid combinations. Applications that require such materials are obviously complex, each demanding expertise and specialized knowledge to design an effective system. The CustomGuard option includes material selection, design, specification support (if needed) and fabrication of pre-assembled spooled pieces to minimize installation time and field joints.

Material	Carrier	Containment
FRP/Metals/Dissimilar	1/2" - 20"	2" - 26"

Vinidex is able to offer CustomGuard in several different materials. CustomGuard is not constrained by a limited material selection. This variety enables us to provide customers with the best solution for their double containment needs.

FOR PRICING AND AVAILABILITY, PLEASE CONTACT YOUR VINIDEX REPRESENTATIVE.

SPECIFICATIONS

MATERIAL SELECTION

Carbon and stainless steel, copper, fiberglass (polyester and vinylester resins), PVDF, PP and dissimilar materials, are all available in CustomGuard[®] systems. This comprehensive offering, unmatched by any one company, gives the unique ability to examine just about any double containment requirement and truly offer the best suited, most cost-effective system.

DESIGN

Our double containment systems offer a variety of productspecific designs to maximise efficiency and reduce installation costs. Centra-Guard[™] electronic low point or cable leak detection systems are also available.

GENERAL

Each contained piping system shall consist of a primary piping system supported within a secondary containment housing. Each system shall be provided with suitable drains and vents and be designed to provide complete drainage of both the primary and secondary containment piping. Interstitial supporting devices shall be made from Polypropylene Centra-Guide supports and shall be provided within the secondary containment pipe, and shall be designed to allow continuous drainage in the annular space to the drain points. Drain fittings shall be designed to allow a valve attachment to be made so that the secondary containment compartment may be readily drained and manually checked for leaks.



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